8.5 Test Result of the Bandedge

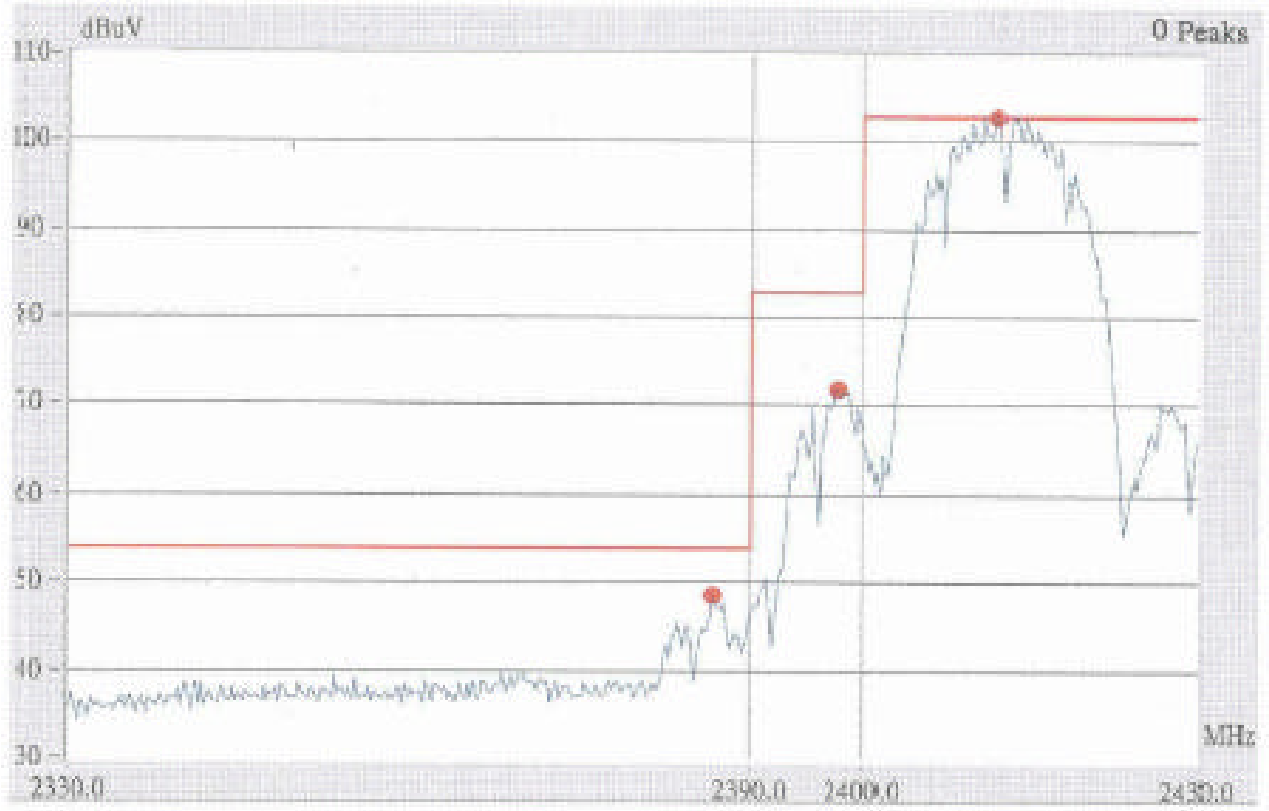
If any 100 kHz bandwidth outside these frequency bands, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either *at least 20 dB below that in any 100 kHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified id §15.209(a),*

We perform this section by the *conducted* manner, the RBW is set to 100kHz and VBW>RBW. We'd made the observation *up to 10th harmonics and the criterion is all the harmonic/spurious emissions must be 20dB below the highest emission level measured.* If the emissions fall in the restricted bands stated in the Part15.205(a) must also *comply with the radiated emission limits specified in Part15.209(a). (Peak mode: RBW=VBW=1MHz. Average mode: RBW=1MHz, VBW=10Hz)*

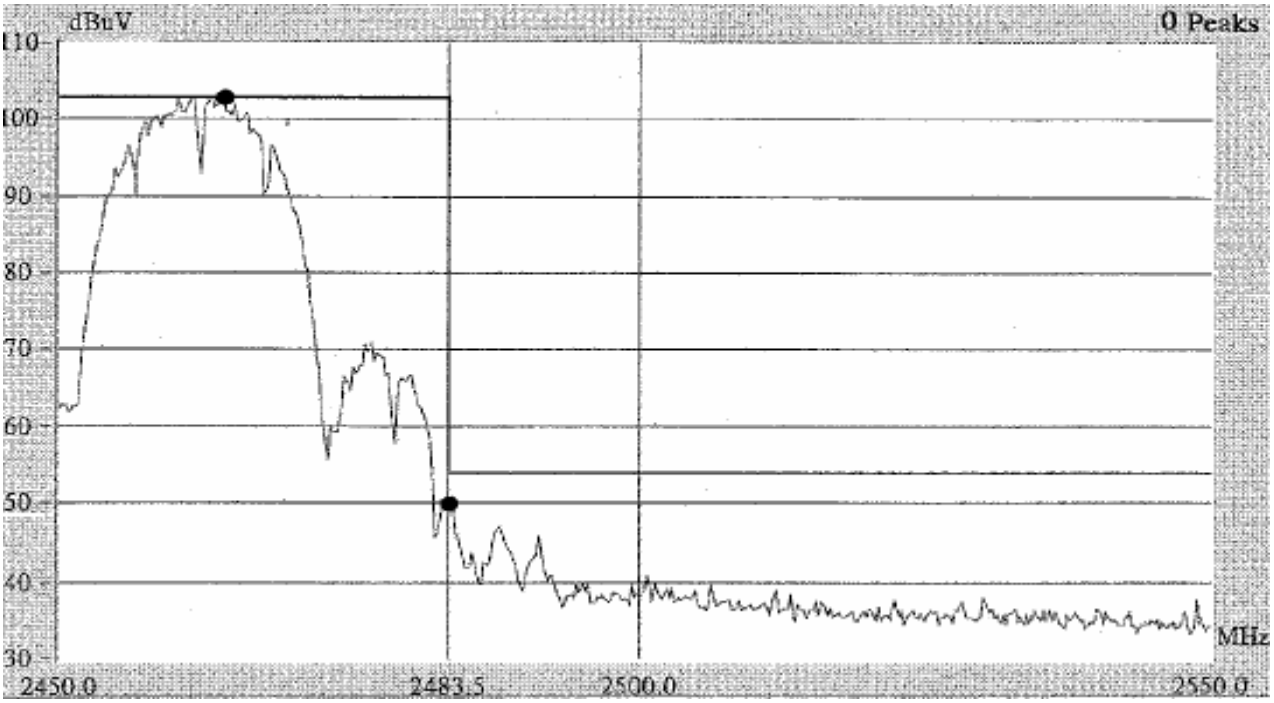
The following pages show our observations referring to the channel 1 and 11 respectively.

Test Condition & Setup: same as 3.1

Channel 1



Channel 11



This is the hard copy of our bandedge measurement generated by our bandedge testing program. The pictures shown above is the bandedge of channel 1 and 11.

1. The lob right and left by the fundamental side is already 20dB below the highest emission level.
2. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

Radiated Emissions For Band-edge [Horizontal]

Radiated Emission				***Corrected Amplitude (dBμV/m)***		***FCC Class B (3m)***		
Frequency (MHz)	***Ant. H. (m)***	***Table (°)***	***Correction Factors (dB)***			***Limit (dBμV/m)***		***Margin (dB)***
				Peak	***Average***	***Peak***	***Ave.***	
2386.50	1.00	219	3.12	51.39	---	74.00	53.96	-2.57
2483.50	1.00	354	3.45	52.86	---	74.00	53.96	-1.10

Radiated Emissions For Band-edge [Vertical]

Radiated Emission				***Corrected Amplitude (dBμV/m)***		***FCC Class B (3m)***		
Frequency (MHz)	***Ant. H. (m)***	***Table (°)***	***Correction Factors (dB)***			***Limit (dBμV/m)***		***Margin (dB)***
				Peak	***Average***	***Peak***	***Ave.***	
2386.50	1.00	248	3.12	46.47	---	74.00	53.96	-7.49
2483.50	1.00	297	3.45	46.28	---	74.00	53.96	-7.68

Note:

Margin = Corrected - Limit.

Correction factor = Antenna factor + (Cable Loss – Amplitude gain)